REMARKS

Responsive to the latest official action, Applicant submits herewith designations in the form of the following claim charts as a convenient format for where in an earlier original specification and drawings there are found adequate support and illustrations for each of the proposed claim changes that are set forth in the amendment filed on or about October 25, 2005 in the present application.

09/903,831 CLAIM CHART

(References are to U.S. Patent No. 5,304,220¹)

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
70	locating a graft assembly in relation to an arterioto my defined in a side wall of a blood vessel	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C
70	a flange portion extending radially about the	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state,	9A-E, 19A- H, 20A-C

References herein for support of claim changes are to columns and lines of U.S. Patent No 5,304,220, as issued from the original continuation in part specification, although additional support and earlier priority are contained in U.S. Patent No. 5,211,683. The present application is a continuation of application Serial No. 09/475,789, filed December 30, 1999, now U.S. Patent No. 6,599,313, which is a continuation of Application Serial No. 09/111,062 filed July 7, 1998, abandoned, which is a continuation of Application Serial No. 09/090,598 filed June 4, 1998, now U.S. Patent No. 5,934,286, which is a continuation of Application Serial No. 09/073,336, filed May 5, 1998, now U.S. Patent No. 5,979,455, which is a continuation of Application Serial No. 08/702,742, filed August 23, 1996, now U.S. Patent No. 5,749,375, which is a continuation of Application Serial No. 08/391,960, filed February 21, 1995, now U.S. Patent No. 5,571,167, which is a continuation of Application Serial No. 08/391,960, filed February 21, 1995, now U.S. Patent No. 5,571,167, which is a continuation of Application Serial No. 08/138,912, filed October 18, 1993, now U.S. Patent No. 5,456,712, which is a division of Application Serial No. 08/056,371, filed on May 3, 1993, now U.S. Patent No. 5,304,220, which is a continuation-in-part of Application Serial No. 07/725,597, filed on July 3, 1991, now U.S. Patent No. 5,211,683.

² The support referenced with respect to the specification and drawings in U.S. Patent No. 5,304,220 is exemplary and not exhaustive. Applicant notes that additional support can be found in U.S. Patent Nos. 5,304,220 and 5,211,683 that is not specifically referenced in this chart.

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
• .	orifice	springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	
·		12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
70	extravasc ularly aligning the orifice of the graft	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body)	6, 12-16, 19A-H, 20A- C
		10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	
		11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.)	
		13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	
70	locating the flange portion within	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted	16-19F, 20A- C
	the blood vessel against an	back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	·
	interior wall with the graft assembly extending	13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
	through the arterioto my		
71	including a plurality of arms	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state,	9A-9I, 16-18, 19B, 19E, 19G 20A-C
		springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	
71	against an interior wall with at least a portion of each of	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	16-19F, 20A- C
	the arms extending through the	13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in	

Claim #	Cleim	Cumpart from (220 Smartfination ²	Support
Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	arterioto my	FIGS. 19E and 19F.)	
75	arterioto my defined in a side wall of a blood vessel	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C
75	plurality of arms attached to the graft	10:28-36 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D)	9A, 9I, 16-18 19B, 19 E, 19G, 20A-C
75	extravasc ularly advancin g the delivery device	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	6, 12-16
75	with a portion of each of the arms extending through the arterioto my	11:25-26 (graft 60 becomes unrolled and reverts to its	16-19H, 20A-C
75	in the side wall of the blood	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C.

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	vessel		
75	in which a portion of each of the arms extends inside the blood vessel away from the arterioto my defined therein	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C
	wherein the plurality of arms includes at least 4 arms	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	9A-9I
80	arterioto my defined in <u>a side</u> wall of a blood vessel	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C
80	with the graft assembly having an orifice at an end	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60	9A-9E, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	thereof	near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
80	and a resilient support secured thereto about the orifice	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	9A-I, 19A-H, 20A-C
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
80	Locating the graft and resilient support w/i a	4:64-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	9A-I, 10A, 10B, 11A, 12

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	delivery device	10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	
		10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		11:1-3 (Graft 60 is then inserted into the proximal end of the central lumen of laparoscope 37 and advanced until its full length is entirely therein.)	
80	extravasc ularly advancin g the delivery device	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body	6, 12-16
80	alignmen t with the arterioto	10 with a medical instrument.) 10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	6-8, 9A-9I, 10A, 10B, 11A, 12-15
	my <u>with</u> the graft <u>and</u> resilient	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
·	support located within the delivery device	substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	
80	removing the graft and resilient support from the delivery through the arterioto my into the blood	5:12-23 (FIG. 13 is a view similar to FIG. 12 but showing the graft prosthesis being advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention. FIG. 14 is a view similar to FIG. 13 but showing the graft prosthesis being further advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention. FIG. 15 is a view similar to FIG. 14 but showing the graft prosthesis being yet further advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention.)	13-16
	<u>vessel</u>	11:15-26 (While the plunger is held stationary, laparoscope 37 is then withdrawn axially over plunger 82 and graft 60 in the direction of arrow 84 as sequentially shown in FIGS.13-15. This allows graft 60 in its rolled configuration to be delivered out the distal end of laparoscope 37. FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
80	wherein the resilient support moves from a first configura tion to a second configura tion extending outwardl y about the arterioto my inside the blood vessel due to spring action after the removing step	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19H, 20A-C
81	a first portion of the resilient support is located adjacent	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	16-19F, 20A- C
	to an interior sidewall	13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	of the blood vessel with the resilient support positione d in the second configuration	FIGS. 19E and 19F.)	
82	locating a graft assembly in relation to an arterioto my defined in a blood vessel, with the graft assembly including a graft and a resilient support secured thereto, the method comprisi ng the steps of:	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48. 10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	9A-9I, 16- 19G, 20A-C.
82	locating the graft	4:64-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the	10A, 10B, 11A, 11B,

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	within a delivery device	graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	12, 13
	·	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
82	advancin g the delivery device toward the arterioto my while the graft is located	5:7:-5:15 (FIG. 12 is a view similar to FIG. 8 but showing the scissors device removed from the laparoscope and replaced with the graft prosthesis and plunger of FIG. 11A in accordance with the preferred method of the present invention. FIG. 13 is a view similar to FIG. 12 but showing the graft prosthesis being advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention.)	12, 13
	within the delivery device; and	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
82	removing the graft from the delivery device after the advancin g step	5:12-23 (FIG. 13 is a view similar to FIG. 12 but showing the graft prosthesis being advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention. FIG. 14 is a view similar to FIG. 13 but showing the graft prosthesis being further advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention. FIG. 15 is a view similar to FIG. 14 but showing the graft prosthesis being yet further advanced out the distal end of the laparoscope in accordance with the preferred method of the present invention.) 11:15-26 (While the plunger is held stationary, laparoscope 37 is then withdrawn axially over plunger 82 and graft 60 in the direction of arrow 84 as sequentially shown in FIGS.13-15. This allows graft 60 in its rolled configuration to be delivered out the distal end of laparoscope 37. FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60	13-16
		positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
82	wherein the resilient support is	10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	9A-I, 10A
	maintaine d in a first configura	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	tion during the advancin g step	lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
82	wherein the resilient support moves from the first configura tion to a second expanded configura tion due to spring action after the advancin g step, and	10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	9A-I, 10A 16-19H, 20A-C
93	inhibiting movemen t of the graft in a direction outwardly through the	11:36-44 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11. Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion	16, 18, 19A- F, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	arterioto my and away from the blood vessel	61 of graft 60.) 11:57-68 (Balloon 88 is then inflated to expand stent 90 to its expanded configuration such that end portion 62 is secured between stent 90 and the sidewall of blood vessel 11 near upstream site 21 as shown in FIG. 18Moreover, FIGS. 20A-20C show end portion 62 of graft 60 being forced into the sidewall of blood vessel 11 by stent 90 (in its expanded configuration) such that graft 60 is secured to blood vessel 11 near upstream site 21 at its end portion 62.)	
		12:33-39 (As a possible additional procedure in order to further ensure the integrity of the anastomosis between end portion 62 of graft 60 and blood vessel 11 near upstream site 21, a number of sutures 100 may be tied to the sidewall of blood vessel 11 so as to further secure end portion 62 and stent 90 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19B and 19C.)	
		13:9-51 (sutures 100 may be sewn in a conventional running fashion so as to secure end portion 62 to the sidewall of blood vessel 11This is accomplished by tying a number of sutures 110 to the sidewall of blood vessel 11 and end portion 62 of graft 60 so as to secure end portion 62 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
94	a sidewall of a blood vessel	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C
94	with the graft assembly including a graft having an orifice at an end	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do	9A-9E, 19A- H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	thereof	not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
94	and a plurality of spring arms extending away from the orifice	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end	9A-9I, 19A- H, 20A-C
94	extravasc ularly	portion 62.) 2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein	6, 12-16, 19A-H,

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	aligning the orifice of the graft with the arterioto my	the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.) 11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.) 13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	20A-C
96	other portions of the plurality of the spring arms extend through the arterioto my and are located outside of the blood vessel after the locating step.	11:25-43 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11. Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:9-51 (end portion 62 is sutured to the sidewall of blood vessel 11 so as to be positioned substantially adjacent a portion of the sidewall of blood vessel 11 which substantially surrounds the arteriotomy once end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 as shown in FIG. 16, end portion 62 is sutured to the sidewall of blood vessel 11 as schematically shown in	16-19H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		alternative step, end portion 62 is sutured to an exterior portion of blood vessel 11 as schematically shown in FIGS. 19G and 19H.)	,
101	the graft assembly further includes a flange portion disposed about the orifice	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	9A-E, 19A- H, 20A-C
,		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	·
102	portion of each of the plurality of spring arms is integrally positione d within the flange portion	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	9A-9I

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
102	and another portion of each of the plurality of spring arms extends through the arterioto my away from the	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C
104	extravasc ularly advancin g the delivery device	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	6, 12-16
104	toward alignmen t with the arterioto my while the graft is located within the delivery device	11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.) 13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	6-8, 12-16
104	each of the plurality of spring	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the	9A-I, 10A, 10B, 11A, 12

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	arms is confined within the delivery device	present invention.) 10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 10:50-66 (Graft 60 is positioned within the open	
		central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the	
		open central lumen of laparoscope 37.) 11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
104	each of the plurality of spring	10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	9A-I, 10A 16-19H, 20A-C.
	arms moves to an expanded condition extending about the orifice of	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	the graft	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
		12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	, .
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
		13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
104	within the blood vessel after the advancin g step	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	9A-I, 10A 16-19H, 20A-C
		11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	·
		13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		FIGS. 19E and 19F.)	
106	each of the plurality of spring arms is maintaine	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	9A-9I, 10A- 10B, 13-16
	d in the confined position due to physical interactio n with an inner wall of the delivery device	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
107	inhibiting movemen t of the graft in a direction outwardl y through the arterioto my and	11:36-44 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11. Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60.)	16, 18, 19A- F, 20A-C
	away	11:57-68 (Balloon 88 is then inflated to expand stent	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	from the blood vessel	90 to its expanded configuration such that end portion 62 is secured between stent 90 and the sidewall of blood vessel 11 near upstream site 21 as shown in FIG. 18Moreover, FIGS. 20A-20C show end portion 62 of graft 60 being forced into the sidewall of blood vessel 11 by stent 90 (in its expanded configuration) such that graft 60 is secured to blood vessel 11 near upstream site 21 at its end portion 62.)	
		12:33-39 (As a possible additional procedure in order to further ensure the integrity of the anastomosis between end portion 62 of graft 60 and blood vessel 11 near upstream site 21, a number of sutures 100 may be tied to the sidewall of blood vessel 11 so as to further secure end portion 62 and stent 90 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19B and 19C.)	
·		13:9-51 (sutures 100 may be sewn in a conventional running fashion so as to secure end portion 62 to the sidewall of blood vessel 11This is accomplished by tying a number of sutures 110 to the sidewall of blood vessel 11 and end portion 62 of graft 60 so as to secure end portion 62 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
107	due to physical interactio	10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	9A-I, 16, 18, 19A-F, 20A- C
	n of portions of the plurality of spring arms against an interior wall of	11:36-44 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11. Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60.)	
	the blood vessel	11:57-68 (Balloon 88 is then inflated to expand stent 90 to its expanded configuration such that end portion 62 is secured between stent 90 and the sidewall of	·

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		blood vessel 11 near upstream site 21 as shown in FIG. 18Moreover, FIGS. 20A-20C show end portion 62 of graft 60 being forced into the sidewall of blood vessel 11 by stent 90 (in its expanded configuration) such that graft 60 is secured to blood vessel 11 near upstream site 21 at its end portion 62.)	
		12:33-39 (As a possible additional procedure in order to further ensure the integrity of the anastomosis between end portion 62 of graft 60 and blood vessel 11 near upstream site 21, a number of sutures 100 may be tied to the sidewall of blood vessel 11 so as to further secure end portion 62 and stent 90 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19B and 19C.)	
		13:9-51 (sutures 100 may be sewn in a conventional running fashion so as to secure end portion 62 to the sidewall of blood vessel 11This is accomplished by tying a number of sutures 110 to the sidewall of blood vessel 11 and end portion 62 of graft 60 so as to secure end portion 62 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
109	the conduit assembly includes a blood flow conduit and a	10:27-32 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A.)	9A-E, 16- 19G, 20A-C
	resilient member secured about an orifice at an end of the blood	12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice)	
	flow conduit, the	12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	method comprisi ng:	would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
109	extravasc ularly aligning the orifice of the blood	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body)	6, 12-16, 19A-H, 20A- C
	flow conduit with the arterioto	10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	
	my	11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.)	
		13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	
109	locating a second portion of	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	16, 19A-H, 20A-C
	the resilient member extending	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
	through the arterioto my outside of the blood	13:9-51 (end portion 62 is sutured to the sidewall of blood vessel 11 so as to be positioned substantially adjacent a portion of the sidewall of blood vessel 11 which substantially surrounds the arteriotomy once end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 as	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	vessel	shown in FIG. 16, end portion 62 is sutured to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F Note that in this further alternative step, end portion 62 is sutured to an exterior portion of blood vessel 11 as schematically shown in FIGS. 19G and 19H.)	
109	confining the resilient member to a first	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	10A, 10B, 11A, 11B, 13-16
	configura tion	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.) 11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled	
100		and reverts to its prerolled configuration as shown in FIG. 16.)	16 1011
109	g the resilient member from the confined	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	16-19H, 20A-C

Claim Change	Support from '220 Specification ²	Support from '220 Figures
first configura tion	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	
,	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
to a second expanded configura tion about the arterioto my within	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	16-19H, 20A-C
	first configuration to a second expanded configuration about the arterioto	first configuration 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Z as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.) 11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 10 a second expanded configuration within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	vessel due to spring action after the advancin g step	back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
117	An anastomo sis method using a conduit assembly including a bloodflow conduit having a resilient member secured thereto about an orifice at an end of the blood flow conduit, the method comprising:	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	9A-I, 19A-H, 20A-C
117	extravasc ularly placing the conduit assembly adjacent	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of	6, 12-16

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	to the arterioto my defined in a blood vessel	advancing the graft prosthesis within the human body 10 with a medical instrument.)	
117	including (i) extravasc ularly aligning the orifice of the blood flow conduit with the arterioto my	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.) 11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.) 13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	6, 12-16, 19A-H, 20A- C
117	locating a first portion of the resilient member including a plurality of struts within the blood	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	vessel through the arterioto my and in contact with an interior wall of the blood vessel about the arterioto my,		
117	locating a second portion of the resilient member extending outside of the blood vessel through the arterioto my	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:9-51 (end portion 62 is sutured to the sidewall of blood vessel 11 so as to be positioned substantially adjacent a portion of the sidewall of blood vessel 11 which substantially surrounds the arteriotomy once end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 as shown in FIG. 16, end portion 62 is sutured to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F Note that in this further alternative step, end portion 62 is sutured to an exterior portion of blood vessel 11 as schematically shown in FIGS. 19G and 19H.)	16-19H, 20A-C
121	with the conduit assembly including a blood flow	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	9A-I, 19A-H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	conduit and a strut assembly secured thereto about an orifice at an end thereof,	12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
121	confining the blood flow conduit within an interior space of a delivery device	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	10A, 10B, 11A, 11B, 12, 13

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
121	extravasc ularly advancin g a distal end of the	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body)	6, 12-16
	delivery device	10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	
121	through the arterioto my	13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	6-8, 12-16
		11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.)	
121	with the blood flow conduit confined within	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	10A, 10B, 11A, 11B, 12, 13
	the interior space of the delivery device and	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
121	after the advancin g step, configuri ng the strut assembly within	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	16-19H, 20A-C
	the blood vessel to a second configura tion	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
	·	13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
121	with the strut assembly extending within the blood vessel	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	16, 19A-H, 20A-C
	about the arterioto my and with the	13:9-51 (end portion 62 is sutured to the sidewall of blood vessel 11 so as to be positioned substantially adjacent a portion of the sidewall of blood vessel 11	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	blood- flow conduit extending outwardl y through the arterioto my away from the blood vessel	which substantially surrounds the arteriotomy once end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 as shown in FIG. 16, end portion 62 is sutured to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F Note that in this further alternative step, end portion 62 is sutured to an exterior portion of blood vessel 11 as schematically shown in FIGS. 19G and 19H.)	
123	each of the plurality of struts extend radially outwardl y from the orifice of the blood flow conduit with the strut assembly positione d in the second configura tion	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.) 11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	9A-E, 16- 19H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
123	the strut assembly is positione d in the second configura tion and with the orifice of the blood flow conduit aligned with the arterioto my	11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.) 13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 near upstream site 21 is	6-8, 12-16, 19A-19H, 20A-C
125	positioni ng each of the plurality of struts adjacent to an interior wall of the blood vessel	aligned) 11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
125	and extending away from the arterioto my after the advancin g step	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C
127	portion of each of the plurality of struts extends through the arterioto my and is located outside of the blood vessel after the positioni ng step	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:9-51 (end portion 62 is sutured to the sidewall of blood vessel 11 so as to be positioned substantially adjacent a portion of the sidewall of blood vessel 11 which substantially surrounds the arteriotomy once end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 as shown in FIG. 16, end portion 62 is sutured to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F Note that in this further alternative step, end portion 62 is sutured to an exterior portion of blood vessel 11 as schematically shown in FIGS. 19G and 19H.)	16, 19A- 19H, 20A-C
129	the conduit assembly further includes a flange portion secured to the	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly	9A-9I, 16- 19H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
·	blood flow conduit near an end thereof adjacent the strut assembly	extending as previously shown and described.)	
132	the blood flow conduit is a synthetic graft	10:22-39 (One type of graft prosthesis which may be used is a graft, generally designated by the reference numeral 60 and shown in FIGS. 9A-9E. Graft 60 includes a body portion 61 having a length slightly larger than the distance between upstream site 21 and downstream site 31. Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9EGraft 60 further includes a second end portion 63 having a design similar to that of a conventional prosthetic graft as shown in FIG. 9A. Graft 60 is preferably made of synthetic fibers.)	9A-9E
133	the strut assembly moves from the confined configura tion to the second configura tion due to spring action	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled	16-19H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.) 11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
136	Inhibiting movemen t of the blood flow conduit in a direction away from the arterioto my in the blood vessel due to physical interactio n between the strut assembly and the blood vessel with the	11:36-44 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11. Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60.) 11:57-68 (Balloon 88 is then inflated to expand stent 90 to its expanded configuration such that end portion 62 is secured between stent 90 and the sidewall of blood vessel 11 near upstream site 21 as shown in FIG. 18Moreover, FIGS. 20A-20C show end portion 62 of graft 60 being forced into the sidewall of blood vessel 11 by stent 90 (in its expanded configuration) such that graft 60 is secured to blood vessel 11 near upstream site 21 at its end portion 62.) 12:33-39 (As a possible additional procedure in order to further ensure the integrity of the anastomosis between end portion 62 of graft 60 and blood vessel 11 near upstream site 21, a number of sutures 100 may be tied to the sidewall of blood vessel 11 so as to	16-19F, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
,	strut assembly in the second configura tion	further secure end portion 62 and stent 90 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19B and 19C.) 13:9-51 (sutures 100 may be sewn in a conventional running fashion so as to secure end portion 62 to the sidewall of blood vessel 11This is accomplished by tying a number of sutures 110 to the sidewall of blood vessel 11 and end portion 62 of graft 60 so as to secure end portion 62 to the sidewall of blood vessel	
137	Locating a conduit assembly in relation to an opening defined in a sidewall of a blood vessel,	11 as schematically shown in FIGS. 19E and 19F.) Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C
137	with the conduit assembly including a blood flow conduit having a flange portion	10:27-28 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E.)	9A-E
137	a plurality of struts attached thereto about an	10:28-36 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if	9A-I

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	orifice at an end thereof, the method	desired, to maintain end portion 62 outwardly extending as previously shown and described.) 12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do not substantially hinder blood flow through the graft orifice) 12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end	
137	advancin g the flange portion and plurality of struts into the blood vessel through the opening	portion 62.) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C
137	aligning the orifice of the blood flow conduit with the opening defined	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior	16-19F, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	in the	portion of blood vessel 11 as schematically shown in	
	blood	FIGS. 19E and 19F.)	
	vessel,		
•	with the		
	flange		
	portion	·	
	and each		
	of the		
	plurality	·	
	of struts		
	attached		
	thereto		
	extending inside the		
	blood		
	vessel	·	
*	about the	·	
	opening		-
	defined		
	<u>therein</u>	·	
142	Locating	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-	16-19G,
	a conduit	13:14; 13:42-48.	20A-C
	assembly		
	in		
	relation	•	
	to an		
	opening		
	defined		
	in <u>a</u> sidewall		
	of a		
	blood		
	vessel,	·	
	with the		
	conduit		
ļ	assembly		
	including		
	a blood		
	flow		
	conduit		
	and a		

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	plurality of struts		
142	extravasc ularly moving the delivery device toward the opening defined in the blood vessel with the blood flow conduit located within the delivery device	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body 10 with a medical instrument.)	6, 12-16
142	located in a first physical arrangem ent confined within the delivery device	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to	10A, 10B, 11A, 11B, 12, 13

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
142	reconfiguring each of the plurality of struts from the first physical arrangement to a second physical arrangement extending within the blood vessel about the opening	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19H, 20A-C
142	with the blood flow conduit extending	1:46-48 (a method of implanting a graft prosthesis in the body of a patient to bypass a segment of a blood vessel.) 6:65-68 (The preferred method disclosed herein	16-19F
	through the	describes the implantation of a graft to couple aorta 16 to right common femoral artery 18 thereby bypassing	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	opening for conductin g blood flow away from the blood vessel	7:26-29 (implantation of a graft prosthesis of the present invention to couple aorta 16 to right common femoral artery 18 thereby bypassing occluded segment 14 of blood vessel 11.) 14:42-50 (Once blood flow reaches former upstream isolated region 40, a flow of blood will enter graft 60 and flow therethrough to former downstream isolated region 50 thereby bypassing occluded segment 14. Consequently, proper blood flow will now exist in body 10 from point C within aorta 16 to point D within right common femoral artery 18 as a result of performing the above described method of bypass of	
153	the conduit assembly including a blood	occluded segment 14.) 10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.)	9A-I
	flow conduit and a resilient support secured thereto near any end thereof		
153	confining the resilient support in a first configura tion	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:28-36 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a	9A-9I, 10A- 10B, 13-16

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
		plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	
		10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
153	extravasc ularly advancin g the resilient support and partially	2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body	6, 12-16
·	through the arterioto my with the resilient support in the first	10 with a medical instrument.)	· .
	configura tion	•	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
153	with the blood flow conduit extending through the arterioto my away from the blood vessel; and	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C
153	after the advancin g step, releasing the resilient support to move from the first configura tion to a second configura tion extending about the arterioto my inside the blood vessel	11:20-26 (FIG. 15 shows end portion 62 of graft 60 positioned within upstream isolated region 40 and end portion 63 of graft 60 positioned at downstream site 31. Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19H, 20A-C
153	due to the spring action of the resilient	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a	9A-9E, 16- 19H, 20A-C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	support	plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	
		11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	
		11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
		13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
156	the conduit assembly further includes a flange portion secured to the blood flow conduit near the end thereof	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	9A-E
156	the at least one arm is	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	16-19F, 20A- C
	positione d in contact with the	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60)	
	flange portion <u>to</u>	13:23-25 (end portion 62 is sutured to an interior	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	urge the flange portion into contact with an interior wall of the blood vessel	portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
159	locating the blood flow conduit, and resilient support within a delivery device	4:64-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled	9A-9I, 10A, 10B, 11A, 11B, 12, 13
159	extravasc ularly advancin g the delivery device toward	configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.) 2:40-44 (advancing the end portion of the graft through the incision to the second location, wherein the advancing step is performed while the second location is covered by the substantially intact portion of the epidermis of the body) 10:19-21 (above positioning step includes the step of advancing the graft prosthesis within the human body	6, 12-16, 19A-H, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	arterioto my in alignmen t therewith	10 with a medical instrument.) 11:36-40 (Also shown in FIG. 16, end portion 62 of graft 60 is positioned within upstream isolated region 40 near upstream site 21 and end portion 63 of graft 60 is positioned at downstream site 31 while body portion 61 of graft 60 is positioned outside of blood vessel 11.)	·
	e	13:42-45 (end portion 62 may be positioned adjacent the sidewall of blood vessel 11 so that the communicating aperture (i.e. the arteriotomy) in the sidewall of blood vessel 11 near upstream site 21 is aligned)	
159	while the blood flow conduit and resilient support are located within the delivery device	4:64-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.) 10:27-31 (End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as shown in FIGS. 9B and 9E-9I.) 10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	9A-I, 10A, 10B, 11A, 12

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
162	Wherein the resilient support member	4:54-67 (FIG. 11A is an elevational view of the laparoscope of FIG. 6. Moreover, FIG. 11A shows the graft prosthesis of FIG. 10A, positioned within the laparoscope in accordance with the method of the present invention.)	9A-9I, 10A- 10B, 11A, 12 -16
	is confined in the first configura tion by physical interactio n with an inner wall of the delivery device	10:50-66 (Graft 60 is positioned within the open central lumen defined in laparoscope 37. In order to achieve the above, graft 60 is preferably rolled into a substantially cylindrical shape as shown in FIGS. 10A and 10B. End portion 62 of graft 60 is manipulated to lie substantially parallel to body portion 61 of graft 60 while graft 60 is in its rolled configuration as shown in FIG. 10A. The outer diameter of graft 60, in its rolled configuration, from point W to point Y is larger than the outer diameter of the rolled graft from point Y to point Z as shown in FIG. 10A. The above is due to the angular construction of end portion 62 as shown in FIG. 9A. The outer diameter of the rolled graft from point W to point Y is slightly smaller than the inner diameter of laparoscope 37. As a result, in its rolled configuration, graft 60 can be positioned within the open central lumen of laparoscope 37.)	
		11:22-26 (Since graft 60 is no longer held in its rolled configuration by the inner diameter of the open central lumen of laparoscope 37, graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16.)	
166	the step of inhibiting movemen t of the blood flow conduit through the	11:57-68 (Balloon 88 is then inflated to expand stent 90 to its expanded configuration such that end portion 62 is secured between stent 90 and the sidewall of blood vessel 11 near upstream site 21 as shown in FIG. 18Moreover, FIGS. 20A-20C show end portion 62 of graft 60 being forced into the sidewall of blood vessel 11 by stent 90 (in its expanded configuration) such that graft 60 is secured to blood vessel 11 near upstream site 21 at its end portion 62.)	18, 19A-H, 20A-C
	arterioto my in a	12:33-39 (As a possible additional procedure in order to further ensure the integrity of the anastomosis	

Claim # Claim Change		Support from '220 Specification ²	Support from '220 Figures	
	direction away from the blood vessel due to physical interactio n between the resilient support and the blood vessel after the releasing step	between end portion 62 of graft 60 and blood vessel 11 near upstream site 21, a number of sutures 100 may be tied to the sidewall of blood vessel 11 so as to further secure end portion 62 and stent 90 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19B and 19C.) 13:9-51 (sutures 100 may be sewn in a conventional running fashion so as to secure end portion 62 to the sidewall of blood vessel 11This is accomplished by tying a number of sutures 110 to the sidewall of blood vessel 11 and end portion 62 of graft 60 so as to secure end portion 62 to the sidewall of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)		
433	locating a conduit assembly	Abstract; 1:65; 2:34; 2:54-59; 9:13-14; 12:38; 12:68-13:14; 13:42-48.	16-19G, 20A-C	
	in relation to an opening defined in a sidewall of a blood vessel,		·	
433	with the conduit assembly including a blood	10:27-31 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E.) 12:10-13 (Note that stent 90 includes a plurality of	9A-9E, 19A- H, 20A-C	
	flow conduit having an	intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do	· · · · · · · · · · · · · · · · · · ·	

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	orifice at an end	not substantially hinder blood flow through the graft orifice)	
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially superimposed over the orifice of graft 60 near end portion 62.)	
433	and a flange portion extending	10:27-36 (Graft 60 has an outwardly extending flanged end portion 62 as shown in FIGS. 9A, 9C, 9D and 9E. End portion 62 is resiliently maintained outwardly extending by four springs 64A-64D as	9A-E, 19A- H, 20A-C
	radially about the	shown in FIGS. 9B and 9E-9I. In their relaxed state, springs 64A-64D maintain end portion 62 within a	
	<u>orifice</u>	plane P1 as shown in FIG. 9A. It should be noted that a number of springs other than four may be used, if desired, to maintain end portion 62 outwardly extending as previously shown and described.)	
		12:10-13 (Note that stent 90 includes a plurality of intersecting bars 71 which span the orifice of graft 60 near end portion 62 as shown in FIG. 20B. Intersecting bars 71 which span the above orifice do	
		not substantially hinder blood flow through the graft orifice)	
		12:21-24 (stent 90 would have an opening defined in its sidewall which is of similar dimensions to the orifice of graft 60 near end portion 62. Such opening	
		would have no intersecting bars traversing thereover. The above modification would allow stent 90 to be positioned within blood vessel 11 near upstream site 21 wherein the above opening would be substantially	
		superimposed over the orifice of graft 60 near end portion 62.)	
433	advancin g the	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16)	16-19F, 20A- C

Claim # (09/903,831)	Claim Change	Support from '220 Specification ²	Support from '220 Figures
	flange portion into the blood vessel through the opening	11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	
433	the flange portion disposed inside the blood vessel against the sidewall and extending radially away from the orifice of the blood flow conduit	11:25-26 (graft 60 becomes unrolled and reverts to its prerolled configuration as shown in FIG. 16) 11:40-43 (Note that end portion 62 has also reverted back to its prerolled configuration so that such end portion is outwardly extending relative to body portion 61 of graft 60) 13:23-25 (end portion 62 is sutured to an interior portion of blood vessel 11 as schematically shown in FIGS. 19E and 19F.)	16-19F, 20A- C

Also responsive to the latest official action, Applicant reports that claims to subject matter which may be considered similar to the subject matter claimed in the present application are contained in copending applications Serial No. 10/726,803, filed 12/2/2003; Serial No. 10/731,068, filed 12/8/2003; and Serial No. 10/824,043, filed 4/13/2004.

Favorable consideration is requested of the pending claims, and of the support and illustrations therefor, as set forth in the previous amendment and in this supplement thereto.

By:

Respectfully submitted, Thomas J. Maginot

Dated:	2	24	06	

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